

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2000, Virginia

Year	Coal <sup>a</sup>	Natural Gas <sup>b</sup>	Petroleum											Nuclear Electric Power	Hydro-electric Power <sup>e</sup>	Wood and Waste <sup>a</sup>	Other <sup>a,f</sup>	Net Interstate Flow of Electricity/Losses <sup>g</sup>	Total <sup>h</sup>
			Asphalt & Road Oil <sup>a</sup>	Aviation Gasoline <sup>a</sup>	Distillate Fuel <sup>a</sup>	Jet Fuel <sup>a</sup>	Kerosene <sup>a</sup>	LPG <sup>a,c</sup>	Lubricants <sup>a</sup>	Motor Gasoline	Residual Fuel <sup>a</sup>	Other <sup>a,d</sup>	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million kWh		Other <sup>a,f</sup>	Million kWh	Total <sup>h</sup>	
1960	R 12,141	66	1,753	382	14,146	4,441	5,038	1,146	633	31,077	17,825	1,705	78,148	0	1,267	—	—	-13,165	—
1965	R 14,904	96	2,681	721	18,609	6,504	5,544	1,658	664	36,104	16,780	2,647	91,912	0	883	—	—	-4,629	—
1970	R 11,294	137	2,250	356	24,640	11,093	5,029	2,412	720	48,684	33,373	3,876	132,434	0	691	—	—	16,309	—
1975	R 7,130	121	2,328	251	22,996	11,602	2,264	3,077	734	59,293	40,953	2,688	146,186	8,970	1,311	—	—	22,851	—
1980	R 9,291	158	2,618	218	24,599	12,279	1,716	3,131	952	59,035	24,651	10,233	139,431	11,466	892	—	—	56,966	—
1985	R 11,656	139	4,033	131	25,252	11,038	4,032	3,932	866	62,979	8,571	4,958	125,792	22,303	845	—	—	R 63,456	—
1990	R 13,960	181	4,701	70	27,940	15,806	1,374	4,088	975	70,333	7,896	3,979	137,160	23,820	R i 476	—	—	R 89,350	—
1991	R 14,885	175	3,734	116	26,819	11,824	1,562	4,643	872	70,526	9,195	4,998	134,290	23,886	R 42	—	—	R 91,114	—
1992	R 14,803	200	3,759	101	26,447	11,670	1,466	4,727	889	71,533	8,083	5,323	133,999	23,334	425	—	—	R 93,048	—
1993	R 15,504	218	3,697	105	28,181	11,915	1,735	4,829	905	73,827	8,503	5,245	138,942	22,689	539	—	—	R 97,838	—
1994	R 14,533	231	3,935	101	29,230	12,003	1,459	4,928	946	75,047	7,982	5,359	140,990	25,429	R 404	—	—	R 95,919	—
1995	R 15,084	247	3,639	85	30,552	10,589	1,618	4,783	930	78,828	5,543	5,231	141,798	25,135	227	—	—	R 104,318	—
1996	R 16,931	239	3,512	79	36,148	9,204	1,935	5,156	903	79,164	4,138	6,215	146,453	26,286	R 599	—	—	R 100,551	—
1997	R 17,167	241	3,474	50	36,869	9,402	2,046	5,216	953	81,440	5,285	6,616	151,353	27,084	R 156	—	—	R 93,112	—
1998	R 17,306	243	3,889	90	37,020	10,183	2,604	4,006	998	82,197	7,547	6,546	155,079	27,234	328	—	—	R 87,072	—
1999	R 17,431	265	4,770	106	37,079	9,314	1,922	4,587	1,009	84,814	8,115	6,704	158,419	28,301	-546	—	—	R 80,413	—
2000	19,526	272	3,883	97	39,405	9,943	1,998	6,097	993	85,628	11,303	6,393	165,741	28,321	-629	—	—	64,251	—
Trillion Btu																			
1960	316.4	68.4	11.6	1.9	82.4	24.0	28.6	4.6	3.8	163.2	112.1	10.1	442.5	0.0	13.6	56.1	0.0	-44.9	852.1
1965	386.3	98.6	17.8	3.6	108.4	35.8	31.4	6.6	4.0	189.7	105.5	15.4	518.2	0.0	9.2	54.2	0.0	-15.8	1,050.8
1970	275.3	140.1	14.9	1.8	143.5	61.9	28.5	9.1	4.4	255.7	209.8	22.5	752.2	0.0	7.3	55.5	0.0	55.6	1,285.9
1975	169.2	123.6	15.4	1.3	133.9	64.9	12.8	11.4	4.5	311.5	257.5	15.5	828.8	98.8	13.6	53.2	0.0	78.0	1,365.2
1980	231.8	161.0	17.4	1.1	143.3	68.8	9.7	11.5	5.8	310.1	155.0	56.8	779.4	125.1	9.3	70.0	0.0	194.4	1,571.0
1985	297.1	144.9	26.8	0.7	147.1	61.7	22.9	14.2	5.3	330.8	53.9	27.4	690.5	R 236.9	8.8	87.7	0.0	R 216.5	R 1,682.5
1990	R 355.1	188.7	31.2	0.4	162.7	88.5	7.8	14.8	5.9	369.5	49.6	22.2	752.7	R 252.1	R i 4.9	R 96.3	i 0.3	R 304.9	R i 1,955.0
1991	R 379.9	182.0	24.8	0.6	156.2	66.7	8.9	16.8	5.3	370.5	57.8	27.9	735.4	R 250.4	R 0.4	R 98.8	0.3	R 310.9	R 1,958.1
1992	R 379.5	207.8	24.9	0.5	154.1	65.9	8.3	17.1	5.4	375.8	50.8	29.5	732.3	R 244.3	4.4	R 102.2	0.3	R 317.5	R 1,988.4
1993	R 397.3	227.5	24.5	0.5	164.2	67.3	9.8	17.4	5.5	387.8	53.5	29.1	759.6	R 238.3	5.6	R 104.8	0.3	R 333.8	R 2,067.2
1994	R 371.7	239.3	26.1	0.5	170.3	68.0	8.3	17.9	5.7	392.5	50.2	29.7	769.1	R 265.8	4.2	R 109.5	0.4	R 327.3	R 2,087.2
1995	R 385.1	254.9	24.1	0.4	178.0	60.0	9.2	17.3	5.6	411.1	34.8	29.0	769.7	R 264.1	2.3	R 116.3	0.4	R 355.9	R 2,148.7
1996	R 428.7	248.4	23.3	0.4	210.6	52.2	11.0	18.6	5.5	412.9	26.0	34.2	794.6	R 276.1	6.2	R 123.0	0.4	R 343.1	R 2,220.5
1997	R 432.9	252.0	23.1	0.3	214.8	53.3	11.6	18.9	5.8	424.5	33.2	36.5	821.9	R 284.2	R 1.6	R 111.6	0.4	R 317.7	R 2,222.4
1998	R 437.2	253.2	25.8	0.5	215.6	57.7	14.8	14.5	6.1	428.4	47.4	36.1	846.9	R 285.7	R 3.3	R 107.1	0.5	R 297.1	R 2,231.0
1999	R 443.0	275.2	31.7	0.5	216.0	52.8	10.9	16.6	6.1	442.0	51.0	36.8	864.3	R 295.7	-5.6	R 111.1	0.5	R 274.4	R 2,258.7
2000	504.8	281.6	25.8	0.5	229.5	56.4	11.3	22.0	6.0	446.1	71.1	35.0	903.7	295.4	-6.4	104.9	0.5	219.2	2,303.6

<sup>a</sup> The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical Notes for each type of energy.

<sup>b</sup> Includes supplemental gaseous fuels.

<sup>c</sup> Liquefied petroleum gases.

<sup>d</sup> "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in the Technical Notes, Section 4, "Other Petroleum Products."

<sup>e</sup> If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.

<sup>f</sup> "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Section 5 of the Technical Notes for an explanation of estimation methodology.

<sup>g</sup> Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number indicates

that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

<sup>h</sup> From 1989, "Total" does not equal the sum of the columns. Net imports of electricity generated from nonrenewable energy sources (shown in the Technical Notes Table TN8) is included in the total but not in any other columns.

<sup>i</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

kWh=Kilowatthours. R=Revised data. —=Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Energy Consumption Estimates, Selected Years, 1960-2000, Virginia

Year	Coal <sup>a</sup>	Natural Gas <sup>b</sup>	Petroleum				Wood <sup>a</sup>	Geothermal	Solar <sup>d</sup>	Electricity <sup>a</sup>	Electrical System Energy Losses <sup>e</sup>	Total	
			Distillate Fuel <sup>a</sup>	Kerosene <sup>a</sup>	LPG <sup>a,c</sup>	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels				Thousand Cords	Geothermal	Solar <sup>d</sup>	Million Kilowatthours	Net Energy	Million Kilowatthours	
1960	R 766	27	6,520	4,655	734	11,909	1,499	—	—	4,099	—	10,196	—
1965	R 454	36	7,471	4,847	1,133	13,452	1,110	—	—	6,557	—	15,655	—
1970	R 264	50	9,734	4,544	1,430	15,708	882	—	—	11,546	—	27,979	—
1975	R 97	49	9,091	2,056	1,561	12,708	925	—	—	15,871	—	38,283	—
1980	R 41	55	7,380	1,403	1,506	10,289	721	—	—	19,731	—	47,979	—
1985	R 54	49	5,139	3,611	1,805	10,554	1,117	—	—	22,568	—	R 52,812	—
1990	R 42	51	5,108	1,160	2,124	8,392	684	—	—	28,130	—	R 61,364	—
1991	R 22	54	4,593	1,322	2,320	8,235	721	—	—	29,607	—	R 63,869	—
1992	R 33	62	4,781	1,283	2,429	8,494	758	—	—	29,780	—	R 63,108	—
1993	R 53	65	4,958	1,489	2,391	8,839	821	—	—	32,472	—	R 68,223	—
1994	R 47	65	4,914	1,256	2,440	8,610	805	—	—	32,343	—	R 67,032	—
1995	R 37	69	4,997	1,220	2,874	9,091	893	—	—	33,472	—	R 69,454	—
1996	R 47	76	5,853	1,544	3,188	10,585	892	—	—	34,651	—	R 71,946	—
1997	R 20	74	5,380	1,583	3,438	10,401	618	—	—	33,923	—	R 70,136	—
1998	R 19	63	5,119	2,053	2,624	9,796	R 559	—	—	34,703	—	R 71,253	—
1999	R 15	69	4,978	1,548	2,927	9,454	R 598	—	—	35,779	—	R 69,579	—
2000	9	80	5,412	1,679	3,500	10,590	626	—	—	37,541	—	64,366	—
<b>Trillion Btu</b>													
1960	R 19.0	27.9	38.0	26.4	2.9	67.3	30.0	0.0	0.0	14.0	R 158.1	34.8	R 192.9
1965	R 11.2	37.4	43.5	27.5	4.5	75.5	22.2	0.0	0.0	22.4	R 168.7	53.4	R 222.2
1970	R 6.3	50.8	56.7	25.8	5.4	87.9	17.6	0.0	0.0	39.4	R 202.0	95.5	R 297.5
1975	R 2.3	49.7	53.0	11.7	5.8	70.4	18.5	0.0	0.0	54.2	R 195.0	130.6	R 325.7
1980	R 1.0	55.6	43.0	8.0	5.5	56.5	14.4	0.0	0.0	67.3	R 194.8	163.7	R 358.6
1985	R 1.3	50.7	29.9	20.5	6.5	56.9	22.3	0.0	0.0	77.0	R 208.2	R 180.2	R 388.4
1990	R 1.1	53.6	29.8	6.6	7.7	44.0	13.7	f 0.1	f 0.1	96.0	R f 208.6	R 209.4	R f 418.0
1991	R 0.6	56.5	26.8	7.5	8.4	42.6	14.4	0.1	0.1	101.0	R 215.3	R 217.9	R 433.3
1992	R 0.8	64.8	27.9	7.3	8.8	43.9	15.2	0.1	0.1	101.6	R 226.6	R 215.3	R 441.9
1993	R 1.3	68.4	28.9	8.4	8.6	45.9	16.4	0.1	0.1	110.8	R 243.1	R 232.8	R 475.9
1994	R 1.2	67.7	28.6	7.1	8.9	44.6	16.1	0.1	0.1	110.4	R 240.2	R 228.7	R 468.9
1995	R 0.9	70.8	29.1	6.9	10.4	46.4	17.9	0.1	0.1	114.2	R 250.5	R 237.0	R 487.5
1996	R 1.2	79.1	34.1	8.8	11.5	54.4	17.8	0.1	0.1	118.2	R 271.0	R 245.5	R 516.5
1997	R 0.5	77.1	31.3	9.0	12.4	52.7	12.4	0.1	0.1	115.7	R 258.8	R 239.3	R 498.1
1998	R 0.5	65.9	29.8	11.6	9.5	50.9	R 11.2	0.1	0.1	118.4	R 247.2	R 243.1	R 490.3
1999	R 0.4	71.7	29.0	8.8	10.6	48.4	R 12.0	0.2	0.1	122.1	R 254.8	R 237.4	R 492.2
2000	0.2	82.5	31.5	9.5	12.6	53.7	12.5	0.2	0.1	128.1	277.3	219.6	497.0

<sup>a</sup> The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

<sup>b</sup> Includes supplemental gaseous fuels.

<sup>c</sup> Liquefied petroleum gases.

<sup>d</sup> Includes small amounts of solar thermal and photovoltaic energy consumed by the commercial sector that cannot be separately identified. See Section 5 of the the Technical Notes for an explanation of estimation methodology.

<sup>e</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for

electrical system energy losses.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

R=Revised data.

—=Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Energy Consumption Estimates, Selected Years, 1960-2000, Virginia

Year	Coal <sup>a</sup>	Natural Gas <sup>b</sup>	Petroleum					Wood <sup>a</sup>	Electricity <sup>a</sup>	Electrical System Energy Losses <sup>d</sup>	Total <sup>e</sup>		
			Distillate Fuel <sup>a</sup>	Kerosene <sup>a</sup>	LPG <sup>a,c</sup>	Motor Gasoline	Residual Fuel <sup>a</sup>						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels					Thousand Cords	Geothermal	Million Kilowatthours	Net Energy	Million Kilowatthours	
1960	R 533	11	1,388	93	130	223	175	2,009	28	—	3,676	—	9,143
1965	R 342	15	1,591	97	200	275	211	2,373	21	—	6,192	—	14,784
1970	R 207	30	2,072	91	252	210	118	2,744	17	—	10,804	—	26,181
1975	R 226	32	1,935	41	275	310	245	2,807	18	—	14,014	—	33,802
1980	R 152	38	1,634	46	266	371	443	2,759	17	—	16,969	—	41,262
1985	R 217	34	2,460	214	319	456	443	3,892	30	—	21,491	—	R 50,293
1990	R 194	41	2,370	139	375	478	221	3,582	R 45	—	28,082	—	R 61,259
1991	R 117	44	2,132	148	409	341	115	3,146	R 48	—	29,387	—	R 63,393
1992	R 159	51	1,955	127	429	345	224	3,079	R 52	—	29,863	—	R 63,283
1993	R 257	53	2,422	159	422	121	182	3,307	R 69	—	31,419	—	R 66,010
1994	R 268	53	2,464	101	431	137	157	3,290	R 69	—	31,624	—	R 65,543
1995	R 248	57	2,572	275	507	132	208	3,694	R 69	—	33,051	—	R 68,580
1996	R 348	59	3,447	277	563	130	258	4,674	R 76	—	33,839	—	R 70,261
1997	R 162	62	3,068	372	607	137	130	4,314	R 71	—	34,165	—	R 70,634
1998	R 153	58	3,158	433	463	123	119	4,297	R 70	—	35,793	—	R 73,491
1999	R 109	62	2,880	317	517	166	218	4,097	R 76	—	36,893	—	R 71,746
2000	74	66	3,165	283	618	122	524	4,711	77	—	38,459	—	65,940
<b>Trillion Btu</b>													
1960	R 13.2	11.7	8.1	0.5	0.5	1.2	1.1	11.4	0.6	0.0	12.5	R 49.4	31.2
1965	R 8.4	15.3	9.3	0.5	0.8	1.4	1.3	13.4	0.4	0.0	21.1	R 58.6	50.4
1970	R 4.9	30.9	12.1	0.5	1.0	1.1	0.7	15.4	0.3	0.0	36.9	R 88.4	89.3
1975	R 5.3	33.0	11.3	0.2	1.0	1.6	1.5	15.7	0.4	0.0	47.8	R 102.1	115.3
1980	R 3.7	39.0	9.5	0.3	1.0	1.9	2.8	15.5	0.3	0.0	57.9	R 116.5	140.8
1985	R 5.4	35.3	14.3	1.2	1.1	2.4	2.8	21.9	0.6	0.0	73.3	R 136.5	R 171.6
1990	R 4.9	42.8	13.8	0.8	1.4	2.5	1.4	19.8	0.9	f(s)	95.8	f 164.2	R 209.0
1991	R 2.9	45.9	12.4	0.8	1.5	1.8	0.7	17.3	R 1.0	(s)	100.3	R 167.4	R 216.3
1992	R 4.0	52.7	11.4	0.7	1.6	1.8	1.4	16.9	1.0	0.1	101.9	R 176.6	R 215.9
1993	R 6.4	55.2	14.1	0.9	1.5	0.6	1.1	18.3	R 1.4	0.1	107.2	R 188.6	R 225.2
1994	R 6.7	55.0	14.4	0.6	1.6	0.7	1.0	18.2	R 1.4	0.1	107.9	R 189.2	R 223.6
1995	R 6.2	58.7	15.0	1.6	1.8	0.7	1.3	20.4	R 1.4	0.1	112.8	R 199.6	R 234.0
1996	R 8.7	61.5	20.1	1.6	2.0	0.7	1.6	26.0	1.5	0.1	115.5	R 213.3	R 239.7
1997	R 4.0	64.6	17.9	2.1	2.2	0.7	0.8	23.7	1.4	0.2	116.6	R 210.5	R 241.0
1998	R 3.8	60.8	18.4	2.5	1.7	0.6	0.8	23.9	R 1.5	0.2	122.1	R 212.2	R 250.8
1999	R 2.7	63.8	16.8	1.8	1.9	0.9	1.4	22.7	R 1.5	0.2	125.9	R 216.7	R 244.8
2000	1.9	68.4	18.4	1.6	2.2	0.6	3.3	26.2	1.5	0.2	131.2	229.5	225.0
													454.5

<sup>a</sup> The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

<sup>b</sup> Includes supplemental gaseous fuels.

<sup>c</sup> Liquefied petroleum gases.

<sup>d</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

<sup>e</sup> Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Energy Consumption Estimates, Selected Years, 1960-2000, Virginia

Year	Coal <sup>a</sup>	Natural Gas <sup>b</sup>	Petroleum										Hydro-electric Power <sup>a</sup>	Wood and Waste <sup>a</sup>	Other <sup>a,d</sup>	Total	Million kWh	Electricity <sup>a</sup>	Net Energy	Electrical System Energy Losses <sup>f</sup>	
			Asphalt and Road Oil <sup>a</sup>	Distillate Fuel <sup>a</sup>	Kero-sene <sup>a</sup>	LPG <sup>a,c</sup>	Lubri-cants <sup>a</sup>	Motor Gasoline	Residual Fuel <sup>a</sup>	Other <sup>a,d</sup>	Total	Million kWh									
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels										R	Other <sup>a,e</sup>	Total						Total
1960	4,503	22	1,753	2,133	291	275	182	882	5,739	1,705	12,961	79	—	—	3,786	—	9,418	—	—	—	
1965	5,824	36	2,681	2,977	600	301	236	838	6,754	2,647	17,033	87	—	—	5,834	—	13,929	—	—	—	
1970	4,172	45	2,250	4,415	395	682	289	653	4,170	3,020	15,874	41	—	—	7,467	—	18,095	—	—	—	
1975	2,816	37	2,328	3,128	167	1,184	307	460	7,611	2,688	17,872	38	—	—	9,437	—	22,764	—	—	—	
1980	3,538	55	2,618	3,573	267	1,312	422	278	5,203	10,233	23,905	27	—	—	11,637	—	28,297	—	—	—	
1985	4,219	51	4,033	3,035	207	1,707	384	686	3,408	4,958	18,418	27	—	—	13,561	—	R 31,735	—	—	—	
1990	R 5,496	75	4,701	3,051	75	1,526	432	705	9 2,893	3,979	17,362	R 9 48	—	—	16,399	—	R 35,773	—	—	—	
1991	R 6,178	60	3,734	2,936	92	1,812	387	671	2,491	4,998	17,121	R 68	—	—	16,029	—	R 34,577	—	—	—	
1992	R 5,950	69	3,759	2,527	56	1,767	394	668	2,945	5,323	17,440	72	—	—	16,714	—	R 35,418	—	—	—	
1993	R 5,746	74	3,697	2,962	87	1,906	402	635	2,745	5,245	17,679	66	—	—	17,390	—	R 36,536	—	—	—	
1994	R 5,547	87	3,935	2,476	101	1,876	420	666	2,499	5,359	17,333	R 75	—	—	18,154	—	R 37,624	—	—	—	
1995	R 5,256	99	3,639	3,545	122	1,338	412	718	1,804	5,231	16,810	77	—	—	18,554	—	R 38,500	—	—	—	
1996	R 5,542	86	3,512	4,429	114	1,349	400	766	1,820	6,215	18,605	R 89	—	—	19,021	—	R 39,493	—	—	—	
1997	R 5,380	87	3,474	5,156	91	1,124	423	801	2,463	6,616	20,148	R 81	—	—	19,249	—	R 39,797	—	—	—	
1998	R 4,834	94	3,889	4,518	118	884	443	794	2,139	6,546	19,330	72	—	—	20,024	—	R 41,114	—	—	—	
1999	R 4,880	103	4,770	4,303	56	1,130	447	571	2,046	6,704	20,026	62	—	—	20,269	—	R 39,417	—	—	—	
2000	5,919	102	3,883	4,628	37	1,945	441	569	2,269	6,393	20,165	62	—	—	20,619	—	35,352	—	—	—	
<b>Trillion Btu</b>																					
1960	114.9	23.3	11.6	12.4	1.6	1.1	1.1	4.6	36.1	10.1	78.8	0.8	25.5	0.0	12.9	256.2	32.1	288.4	—	—	—
1965	147.4	36.6	17.8	17.3	3.4	1.2	1.4	4.4	42.5	15.4	103.4	0.9	31.6	0.0	19.9	339.8	47.5	387.3	—	—	—
1970	99.3	46.0	14.9	25.7	2.2	2.6	1.8	3.4	26.2	17.3	94.2	0.4	37.5	0.0	25.5	302.8	61.7	364.6	—	—	—
1975	66.1	37.3	15.4	18.2	0.9	4.4	1.9	2.4	47.9	15.5	106.7	0.4	34.4	0.0	32.2	277.0	77.7	354.7	—	—	—
1980	88.1	55.4	17.4	20.8	1.5	4.8	2.6	1.5	32.7	56.8	138.0	0.3	55.3	0.0	39.7	376.8	96.6	473.3	—	—	—
1985	106.7	52.8	26.8	17.7	1.2	6.1	2.3	3.6	21.4	27.4	106.5	0.3	64.8	0.0	46.3	377.3	R 108.3	R 485.6	—	—	—
1990	R 140.0	78.3	31.2	17.8	0.4	5.5	2.6	3.7	18.2	22.2	101.7	R 9 0.5	R 81.7	9 0.0	56.0	R 458.2	R 122.1	R 9 580.2	—	—	—
1991	R 157.6	62.8	24.8	17.1	0.5	6.5	2.3	3.5	15.7	27.9	98.4	R 0.7	R 83.5	0.0	54.7	R 457.6	R 118.0	R 575.6	—	—	—
1992	R 152.4	72.1	24.9	14.7	0.3	6.4	2.4	3.5	18.5	29.5	100.3	0.7	R 86.0	0.0	57.0	R 468.6	R 120.8	R 589.5	—	—	—
1993	R 147.4	77.4	24.5	17.3	0.5	6.9	2.4	3.3	17.3	29.1	101.3	R 0.7	R 87.0	0.0	59.3	R 473.0	R 124.7	R 597.7	—	—	—
1994	R 142.2	90.2	26.1	14.4	0.6	6.8	2.5	3.5	15.7	29.7	99.4	R 0.8	R 92.1	0.0	61.9	R 486.5	R 128.4	R 614.9	—	—	—
1995	R 134.8	101.9	24.1	20.6	0.7	4.8	2.5	3.7	11.3	29.0	96.9	R 0.8	R 97.1	0.0	63.3	R 494.8	R 131.4	R 626.1	—	—	—
1996	R 141.8	88.8	23.3	25.8	0.6	4.9	2.4	4.0	11.4	34.2	106.7	0.9	R 103.6	0.0	64.9	R 506.7	R 134.8	R 641.5	—	—	—
1997	R 136.9	90.4	23.1	30.0	0.5	4.1	2.6	4.2	15.5	36.5	116.4	R 0.8	R 97.8	0.0	65.7	R 508.1	R 135.8	R 643.9	—	—	—
1998	R 122.9	98.0	25.8	26.3	0.7	3.2	2.7	4.1	13.4	36.1	112.3	R 0.7	R 94.5	0.0	68.3	R 496.8	R 140.3	R 637.1	—	—	—
1999	R 124.3	106.6	31.7	25.1	0.3	4.1	2.7	3.0	12.9	36.8	116.4	R 0.6	R 97.6	0.0	69.2	R 514.7	R 134.5	R 649.2	—	—	—
2000	154.7	105.9	25.8	27.0	0.2	7.0	2.7	3.0	14.3	35.0	114.9	R 0.6	R 90.8	0.0	70.4	537.3	120.6	658.0	—	—	—

<sup>a</sup> The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

<sup>b</sup> Includes supplemental gaseous fuels.

<sup>c</sup> Liquefied petroleum gases.

<sup>d</sup> "Other" is the subtotal of 16 petroleum products. See a full description in Section 4 of the Technical Notes "Other Petroleum Products."

<sup>e</sup> "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Section 5 of the Technical Notes for an explanation of estimation methodology.

<sup>f</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

<sup>g</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

R=Revised data.

kWh=Kilowatthours. —=Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Energy Consumption Estimates, Selected Years, 1960-2000, Virginia

Year	Coal <sup>a</sup>	Natural Gas <sup>b</sup>	Petroleum								Ethanol <sup>d</sup>	Electricity <sup>a</sup>	Electrical System Energy Losses <sup>e</sup>	Total <sup>d</sup>	
			Aviation Gasoline <sup>a</sup>	Distillate Fuel <sup>a</sup>	Jet Fuel <sup>a</sup>	LPG <sup>a,c</sup>	Lubricants <sup>a</sup>	Motor Gasoline	Residual Fuel <sup>a</sup>	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Barrels	Million Kilowatthours	Net Energy	Million Kilowatthours	
1960	R 77	4	382	4,099	4,441	7	451	29,972	11,780	51,134	0	0	—	0	—
1965	19	7	721	6,564	6,504	24	428	34,992	9,645	58,877	0	0	—	0	—
1970	7	8	356	7,698	11,093	47	430	47,821	12,000	79,446	0	0	—	0	—
1975	(s)	3	251	8,217	11,602	57	427	58,524	6,356	85,436	0	0	—	0	—
1980	0	8	218	11,219	12,279	47	530	58,386	4,419	87,098	0	32	—	78	—
1985	0	4	131	14,278	11,038	102	482	61,837	3,419	91,287	f 658	60	—	R 140	—
1990	0	7	70	16,930	15,806	63	542	69,150	3,362	105,922	381	86	—	189	—
1991	0	7	116	16,856	11,824	101	485	69,513	3,780	102,675	365	88	—	R 190	—
1992	0	6	101	16,915	11,670	102	495	70,521	2,872	102,676	275	91	—	R 194	—
1993	0	6	105	17,616	11,915	109	504	73,071	2,396	105,715	51	91	—	R 191	—
1994	0	6	101	18,887	12,003	182	527	74,244	1,977	107,920	277	89	—	R 185	—
1995	0	6	85	19,113	10,589	64	518	77,978	1,953	110,299	1	86	—	R 178	—
1996	0	8	79	22,079	9,204	56	502	78,268	1,238	111,426	954	85	—	R 177	—
1997	0	7	50	23,065	9,402	48	531	80,503	1,483	115,081	737	83	—	R 171	—
1998	0	7	90	23,837	10,183	35	555	81,280	1,338	117,318	920	88	—	R 180	—
1999	0	8	106	24,432	9,314	14	561	84,077	1,464	119,969	787	91	—	R 178	—
2000	0	8	97	25,725	9,943	35	553	84,937	5,137	126,427	891	96	—	165	—
<b>Trillion Btu</b>															
1960	2.0	4.1	1.9	23.9	24.0	(s)	2.7	157.4	74.1	284.1	0.0	0.0	290.2	0.0	290.2
1965	0.5	7.0	3.6	38.2	35.8	0.1	2.6	183.8	60.6	324.8	0.0	0.0	332.2	0.0	332.2
1970	0.2	8.0	1.8	44.8	61.9	0.2	2.6	251.2	75.4	438.0	0.0	0.0	446.1	0.0	446.1
1975	(s)	3.1	1.3	47.9	64.9	0.2	2.6	307.4	40.0	464.3	0.0	0.0	467.4	0.0	467.4
1980	0.0	8.4	1.1	65.3	68.8	0.2	3.2	306.7	27.8	473.1	0.0	0.1	481.6	0.3	481.8
1985	0.0	4.6	0.7	83.2	61.7	0.4	2.9	324.8	21.5	495.1	f 2.3	0.2	f 499.9	0.5	f 500.4
1990	0.0	7.2	0.4	98.6	88.5	0.2	3.3	363.2	21.1	575.4	1.3	0.3	582.9	0.6	583.6
1991	0.0	6.9	0.6	98.2	66.7	0.4	2.9	365.2	23.8	557.7	1.3	0.3	564.9	R 0.6	565.6
1992	0.0	6.7	0.5	98.5	65.9	0.4	3.0	370.4	18.1	556.8	1.0	0.3	563.8	0.7	564.5
1993	0.0	6.0	0.5	102.6	67.3	0.4	3.1	383.8	15.1	572.8	0.2	0.3	579.1	0.7	579.7
1994	0.0	6.6	0.5	110.0	68.0	0.7	3.2	388.3	12.4	583.1	1.0	0.3	590.0	0.6	590.6
1995	0.0	6.5	0.4	111.3	60.0	0.2	3.1	406.7	12.3	594.1	(s)	0.3	600.9	0.6	601.5
1996	0.0	8.1	0.4	128.6	52.2	0.2	3.0	408.2	7.8	600.5	3.4	0.3	608.9	0.6	609.5
1997	0.0	7.7	0.3	134.4	53.3	0.2	3.2	419.7	9.3	620.3	2.6	0.3	628.3	0.6	628.9
1998	0.0	7.2	0.5	138.8	57.7	0.1	3.4	423.6	8.4	632.6	3.3	0.3	640.1	0.6	640.7
1999	0.0	8.3	0.5	142.3	52.8	(s)	3.4	438.1	9.2	646.5	2.8	0.3	655.1	0.6	655.7
2000	0.0	8.3	0.5	149.8	56.4	0.1	3.4	442.5	32.3	685.0	3.2	0.3	693.7	0.6	694.2

<sup>a</sup> The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

<sup>b</sup> Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

<sup>c</sup> Liquefied petroleum gases.

<sup>d</sup> Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector and is included only once in the total.

<sup>e</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for

electrical system energy losses.

<sup>f</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Estimates of Energy Input at Electric Utilities, Selected Years, 1960-2000, Virginia

Year	Coal	Natural Gas <sup>a</sup>	Petroleum				Nuclear Electric Power	Hydroelectric Power <sup>e</sup>	Wood and Waste	Geothermal Energy	Other <sup>b,f</sup>	Total <sup>g</sup>
			Residual Fuel <sup>b,c</sup>	Distillate Fuel <sup>b,d</sup>	Petroleum Coke <sup>b</sup>	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	6,262	1	130	6	0	136	0	1,189	0	0	0	—
1965	8,265	2	170	7	0	178	0	797	0	0	0	—
1970	6,644	4	17,085	721	856	18,662	0	650	0	0	0	—
1975	3,991	(s)	26,741	624	0	27,364	8,970	1,273	0	0	0	—
1980	5,560	2	14,586	793	0	15,379	11,466	864	0	0	0	—
1985	7,166	2	1,301	340	0	1,641	22,303	818	0	0	0	—
1990	8,228	7	1,421	482	0	1,902	23,820	428	0	0	(s)	—
1991	8,568	9	2,810	302	0	3,112	23,886	-26	0	0	(s)	—
1992	8,661	11	2,041	269	0	2,310	23,334	353	0	0	(s)	—
1993	9,447	20	3,180	222	0	3,402	22,689	473	0	0	(s)	—
1994	8,670	19	3,348	489	0	3,837	25,429	329	0	0	(s)	—
1995	9,543	16	1,577	326	0	1,903	25,135	149	0	0	(s)	—
1996	10,994	10	822	341	0	1,163	26,286	510	0	0	0	—
1997	11,605	12	1,209	199	0	1,408	27,084	76	0	0	0	—
1998	12,300	20	3,950	388	0	4,338	27,234	256	0	0	0	—
1999	12,427	23	4,387	486	0	4,873	28,301	-608	0	0	0	—
2000	13,524	16	3,373	475	0	3,848	28,321	-691	0	0	0	—
<b>Trillion Btu</b>												
1960	167.4	1.5	0.8	(s)	0.0	0.9	0.0	12.8	0.0	0.0	0.0	182.5
1965	218.8	2.3	1.1	(s)	0.0	1.1	0.0	8.3	0.0	0.0	0.0	230.6
1970	164.6	4.4	107.4	4.2	5.2	116.8	0.0	6.8	0.0	0.0	0.0	292.6
1975	95.5	0.5	168.1	3.6	0.0	171.8	98.8	13.2	0.0	0.0	0.0	379.8
1980	139.1	2.5	91.7	4.6	0.0	96.3	125.1	9.0	0.0	0.0	0.0	372.0
1985	183.6	1.6	8.2	2.0	0.0	10.2	R 236.9	8.5	0.0	0.0	0.0	R 440.8
1990	209.2	6.8	8.9	2.8	0.0	11.7	R 252.1	4.4	0.0	0.0	(s)	R 484.3
1991	218.8	9.9	17.7	1.8	0.0	19.4	R 250.4	-0.3	0.0	0.0	(s)	R 498.2
1992	222.3	11.5	12.8	1.6	0.0	14.4	R 244.3	3.6	0.0	0.0	(s)	R 496.1
1993	242.2	20.5	20.0	1.3	0.0	21.3	R 238.3	4.9	0.0	0.0	(s)	R 527.1
1994	221.6	19.9	21.1	2.8	0.0	23.9	R 265.8	3.4	0.0	0.0	(s)	R 534.6
1995	243.2	16.9	9.9	1.9	0.0	11.8	R 264.1	1.5	0.0	0.0	(s)	R 537.6
1996	277.0	10.9	5.2	2.0	0.0	7.2	R 276.1	5.3	0.0	0.0	0.0	R 576.4
1997	291.4	12.1	7.6	1.2	0.0	8.8	R 284.2	0.8	0.0	0.0	0.0	R 597.3
1998	310.0	21.4	24.8	2.3	0.0	27.1	R 285.7	2.6	0.0	0.0	0.0	R 646.8
1999	315.7	24.7	27.6	2.8	0.0	30.4	R 295.7	R -6.2	0.0	0.0	0.0	R 660.4
2000	347.8	16.4	21.2	2.8	0.0	24.0	295.4	-7.1	0.0	0.0	0.0	676.6

<sup>a</sup> Includes supplemental gaseous fuels.<sup>b</sup> The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.<sup>c</sup> Prior to 1980, based on oil used in steam plants. Since 1980, residual fuel includes fuel oil nos. 4, 5, and 6 and residual fuel oils.<sup>d</sup> Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, distillate fuel includes fuel oil nos. 1 and 2, kerosene, and jet fuel.<sup>e</sup> If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of

imports of electricity that is derived from hydroelectric power.

<sup>f</sup> "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.<sup>g</sup> If applicable, from 1989, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. See data in Table TN8 in the Technical Notes.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.